



S.C. SAVER ALUMEN S.r.L.

ALUMINIUM GRAVITY CASTINGS

REGISTERED OFFICE

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Company History and Mission Statement

Saver Alumen S.r.l. (ISO 9001-certified) is the company of the Saver Group (www.savercompositi.com) specialising in the production of aluminium castings for various applications.

Established in Romania in 2008, it was acquired by the Saver Group in 2012 with the aims of:

- a) vertically integrating the supply of aluminium flanges to be assembled in Saver's own applications for high-voltage electricity distribution;
- b) developing other markets for aluminium castings.

Starting in 2012, the production line and the production process were dramatically improved to achieve the quality standards required by the parent company in Italy and by the most demanding customers in Europe.

Saver Alumen is directed on site by experienced Italian managers active in the world of aluminium forging for over 30 years. The company employs skilled workers capable of handling all stages of the production process: from the inspection of incoming raw materials to final product inspection (ready to be heat-treated and processed if necessary), thus guaranteeing high and consistent standards of quality and reliability. ■



Shell die-casting machines



Castings ready to be shipped

Technologies

The production facility, which occupies a covered area of 5,000 square metres out of a total area of 20,000 square metres, includes five semi-automatic shell die-casting machines served by six crucible furnaces (two gas-heated melting furnaces and four electrically heated holding furnaces).

The weight of the unmachined part is between 0 and 15 kg – with floor surfaces of 40 cm by 40 cm – which can be produced in batches from a minimum of 100 to a maximum of 20,000 pieces. The above data is not binding, and deviations from the above measurements may be definitively assessed.



X Rays



Durometer



Quantometer

Once the degassing process has been performed using the new automatic machine, the aluminium alloy used in the production process is analysed by the new Thermo Scientific™ 4460 ARL spectrometer, while the cast parts are inspected

with a new-generation Gilardoni X-ray machine (NDT Tomography).

The above method allows the foundry to produce castings of high quality that are free from inclusions and porosities. ■

Plant and Machinery

The finishing department is equipped with new machines (vertical saws and grinders). Each machine has its own backup ready to be activated, in order to avoid any possible interruption to the finishing process.

The company works in three shifts. The available machines, staff and production capacity, as a whole, are structured to absorb demand peaks and increasing volumes. The alloys currently being produced are:

EN AB - 42000 Al Si7Mg
EN AB - 42100 Al Si7Mg 0.3
EN AB - 43000 Al Si10Mg(a)
EN AB - 44400 Al Si9Mg
EN AB - 46400 Al Si9Cu1Mg

Other alloys can be added.

Saver Alumen is equipped with a warehouse well stocked with the main alloys used, so as to guarantee the rapid initiation of production for customers, in case of need.

Shipping takes place twice a week to Italy and Western-Central Europe. ■



Casting



Grinder

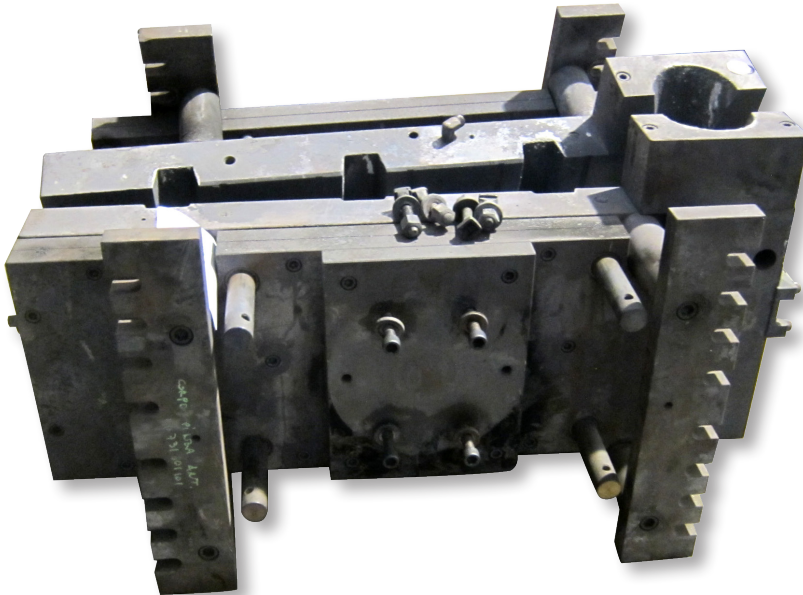


Pony band saw

Production Moulds

The company, via its expert partners, can also manage the production of moulds, in line with the needs of customers. Once the new moulds have been introduced into the production process, Saver Alumen is equipped with machines, tools and staff capable of optimising the moulds precisely for the perfect adjustment of the casting process, where necessary.

Currently, the warehouse contains about 100 moulds, partly owned by the company and partly by the customers, which are used in rotation. ■



Mould



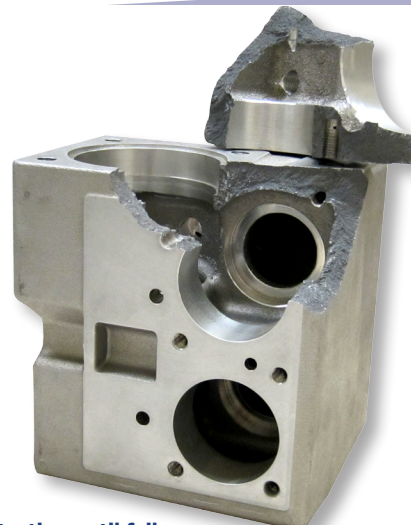
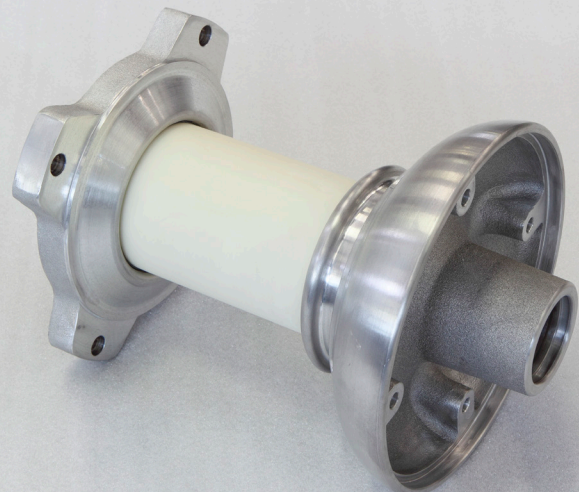
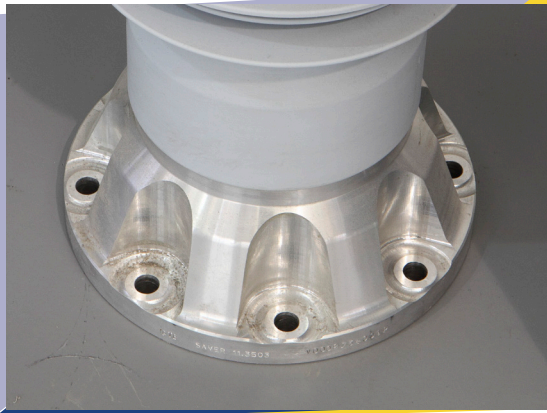
Mould warehouse



Sand blaster

Production casting

Examples of Saver Alumen's products include high-voltage flanges and fittings used in the transmission and distribution of electrical energy, jets for hydraulic pumps for lifts and distribution of hydrocarbons, pipe fittings, bodies and covers for headlamps, brake calipers, etc. ■



Pressure testing until failure

Information for the supply quote

To provide an accurate and fast estimate, the following are required:

- 2D and 3D drawings of the unmachined part to be manufactured.
- 2D and 3D drawings of the finished part after machining.
- Photo of the unmachined part (if available), possibly also to be de-sprued for existing productions.
- Alloy to be used.
- Minimum batch.
- Annual requirement.
- Indication of the heat treatment (if necessary).
- Indication of the sand blasting (if required).
- Type of machining.
- Photos/drawings of the mould, for existing productions.





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